

FIG. 1

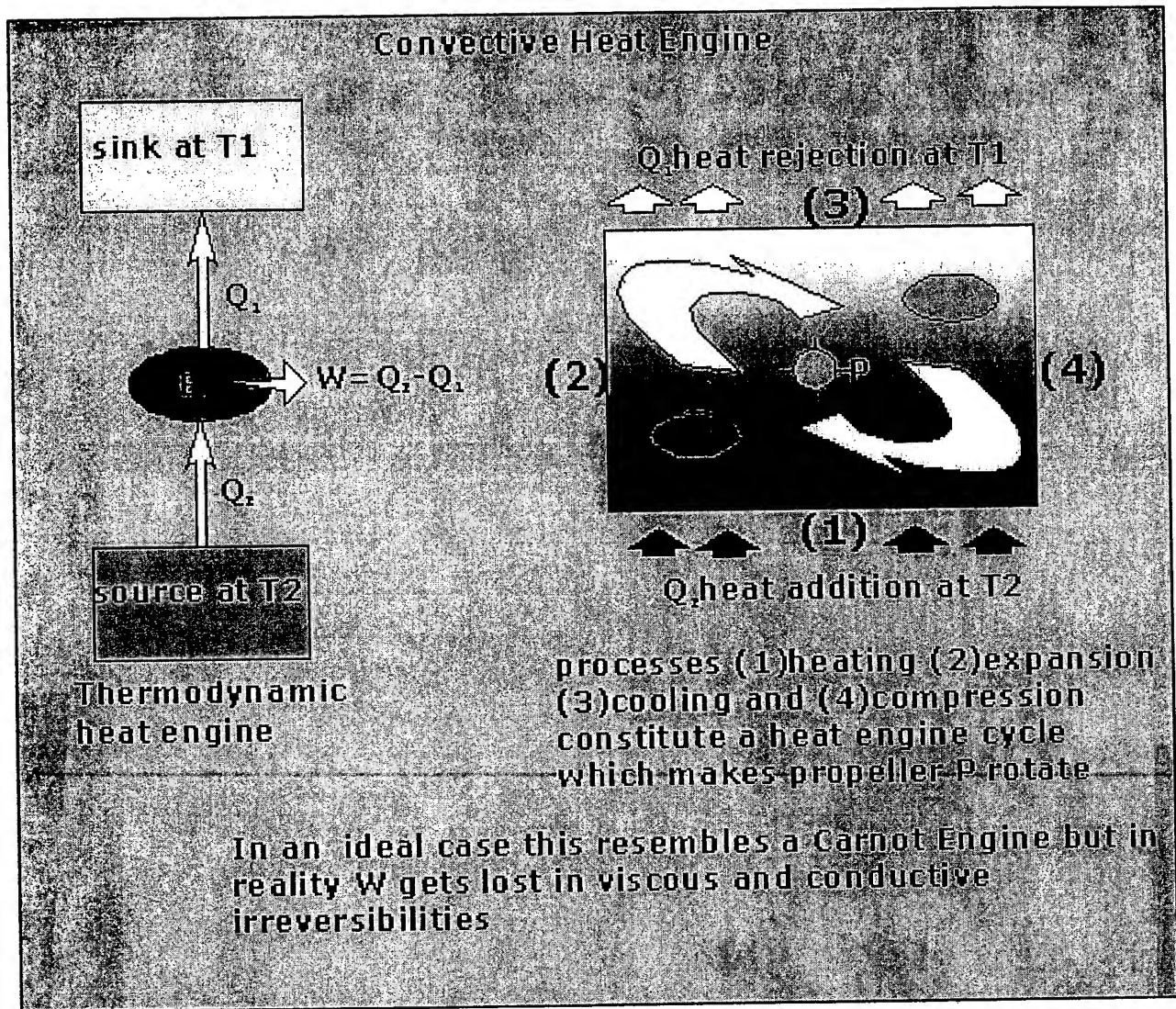


FIG. 2

Rayleigh - Benard Convection Cells

(computer model)

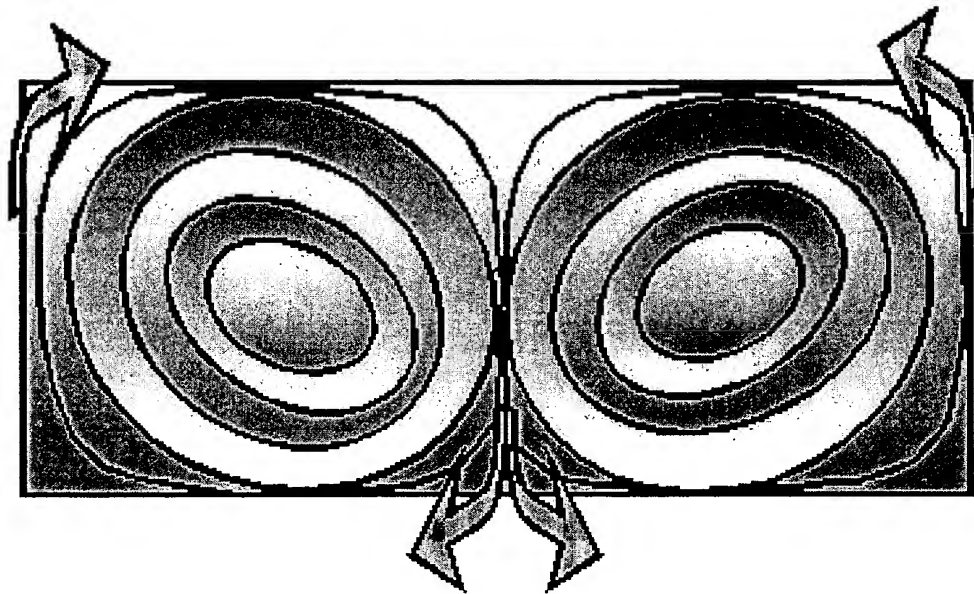


Plate Heated from below

Energy is transferred from bottom to top by the Convection Cells formed in the Fluid when Ra exceeds 1708. The direction of rotation of two adjacent Cells are shown in the figure

FIG. 3

classical marble-in-a-bowl analogy of
stability analysis of onset of convective flow

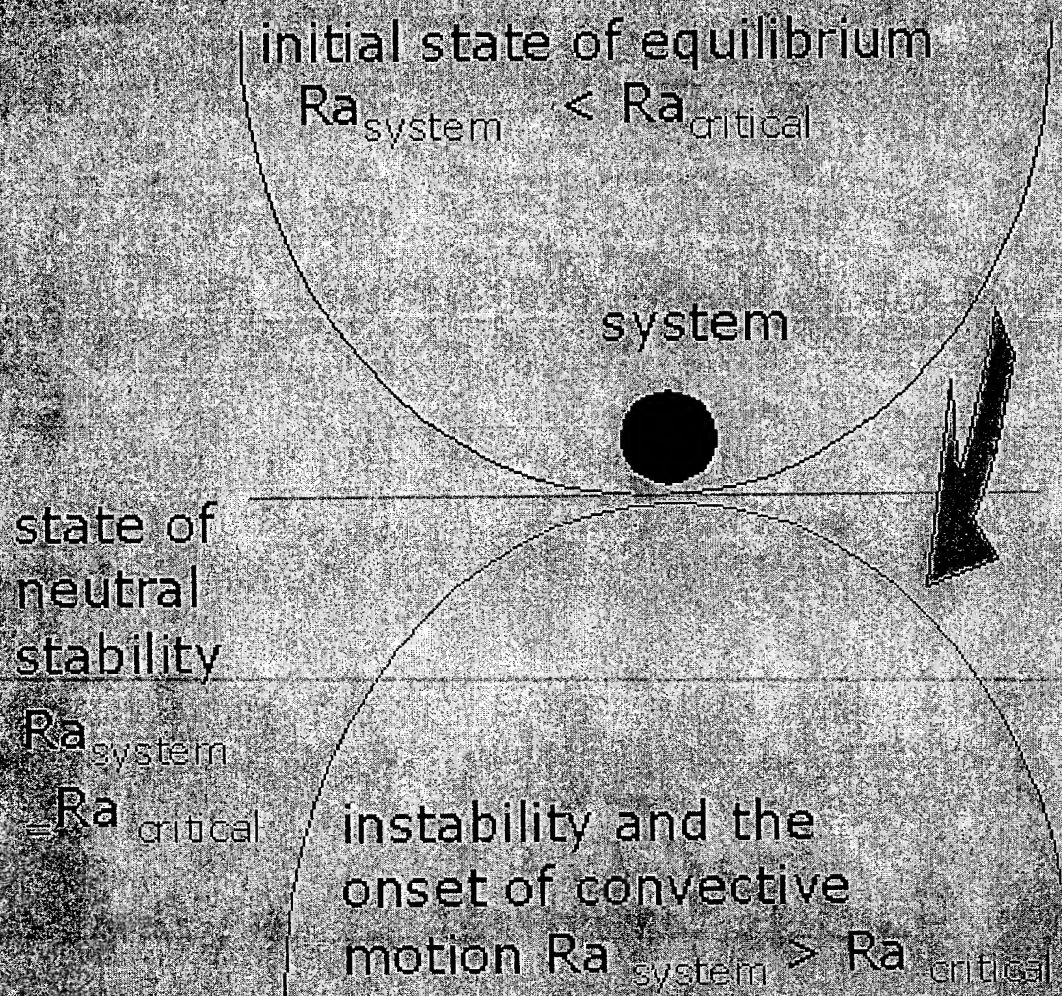


FIG. 4

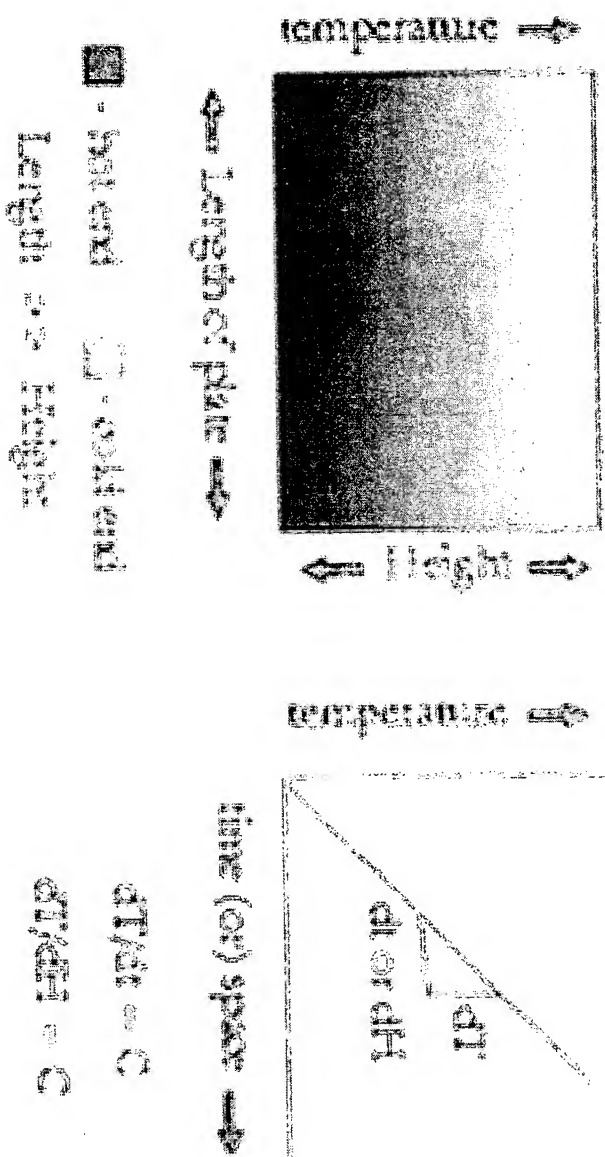
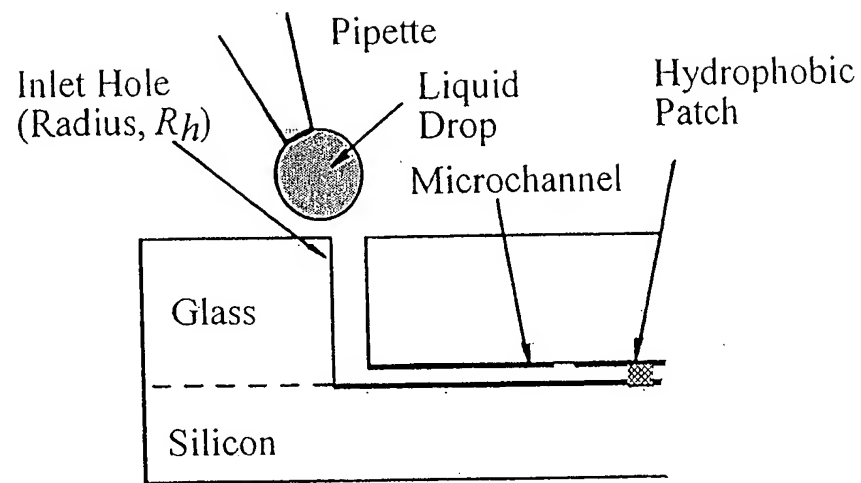
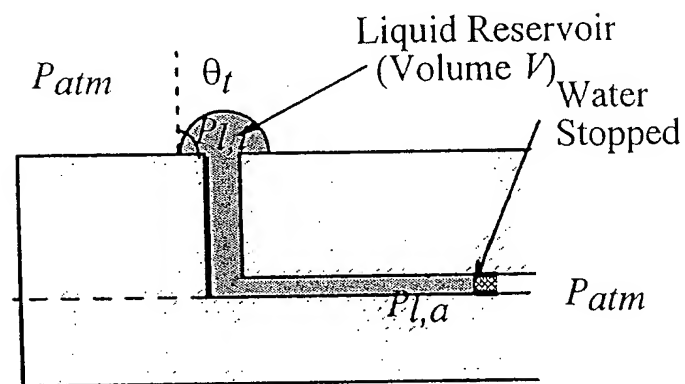


FIG. 5



(i)



(ii)

FIG. 6A

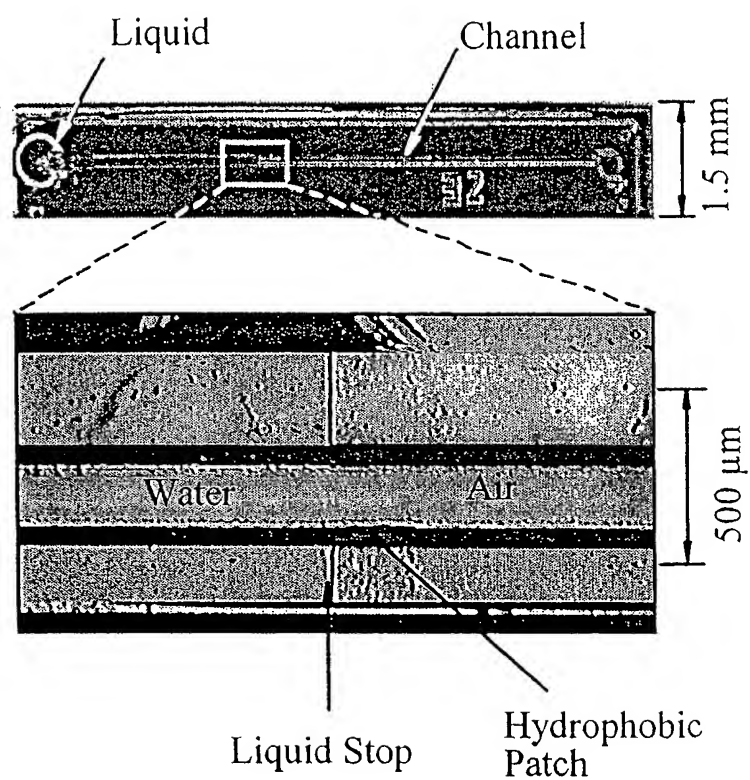


FIG. 6B

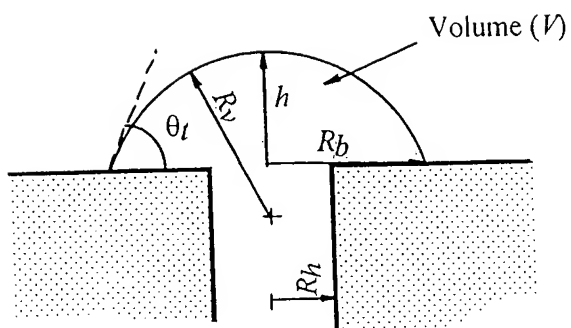


FIG. 7A

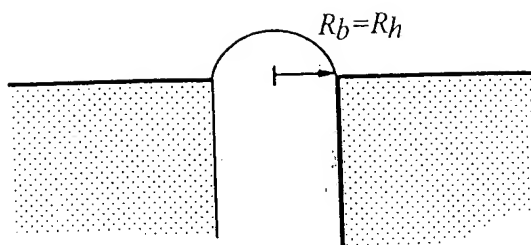


FIG. 7B

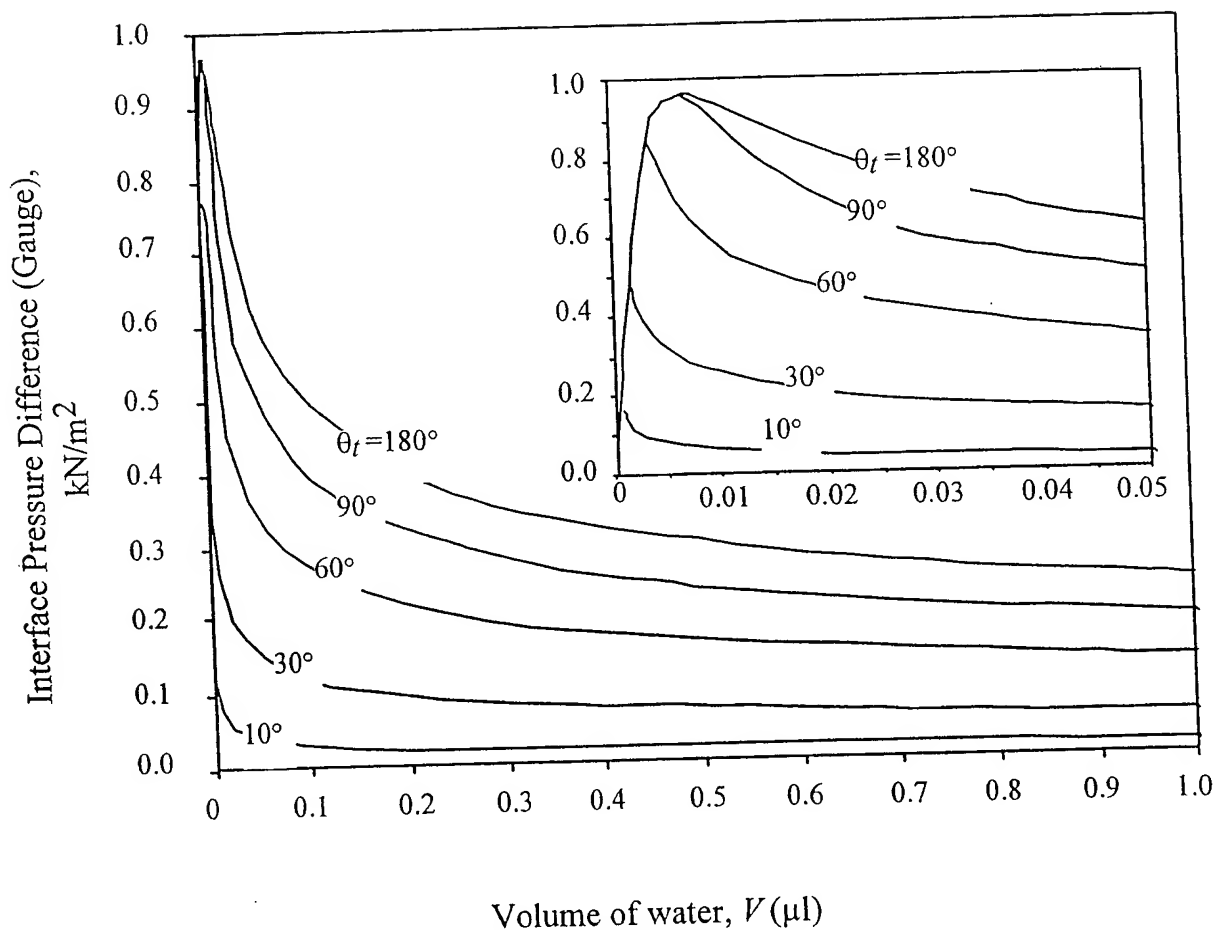


FIG. 7C

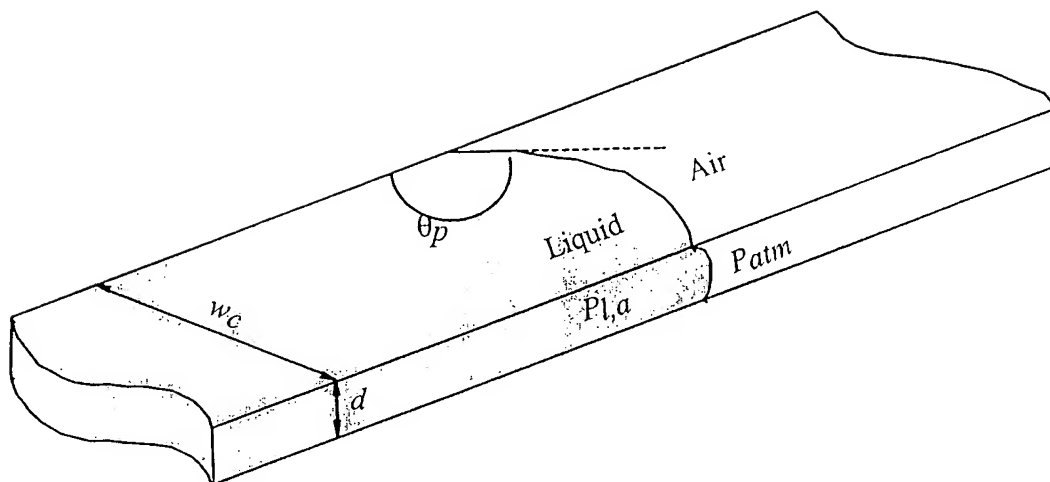


FIG. 8A

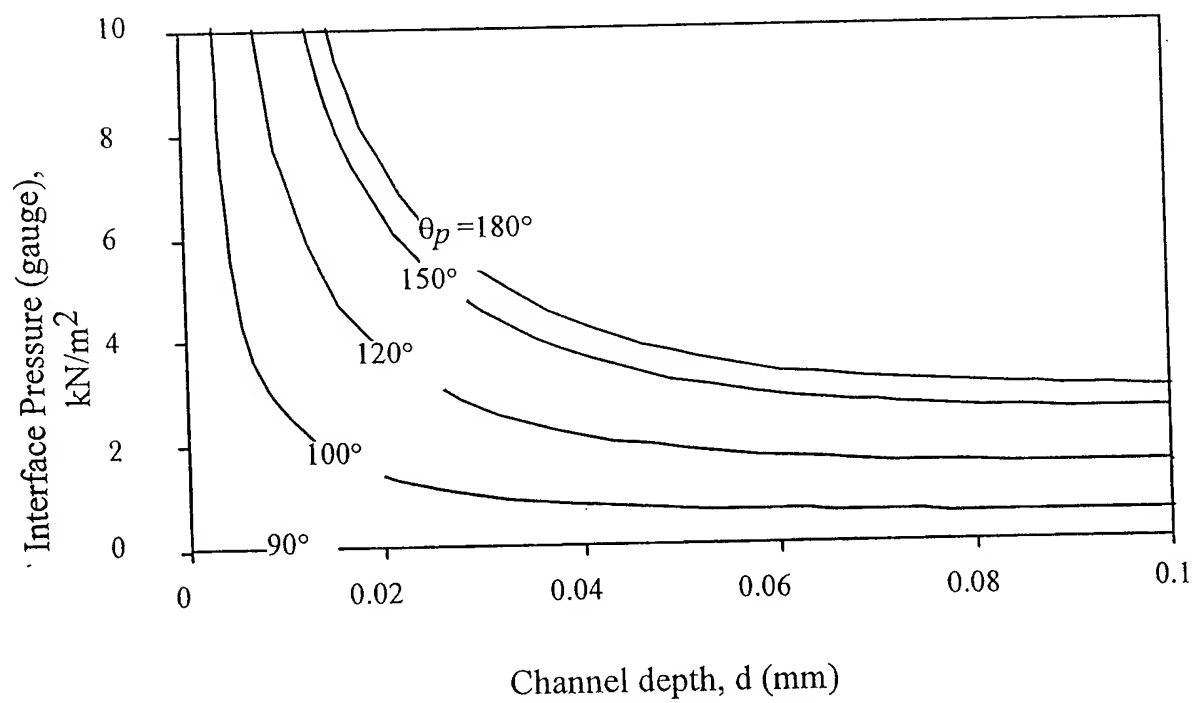


FIG. 8B



FIG. 9

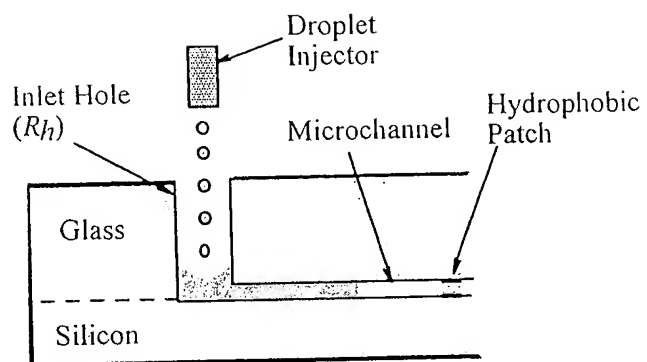


FIG. 10A

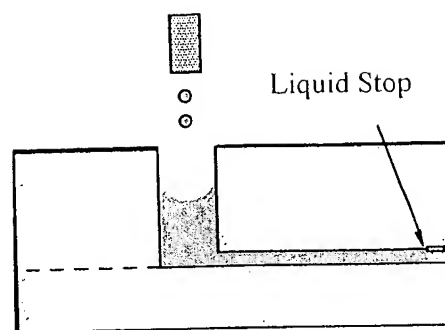


FIG. 10B

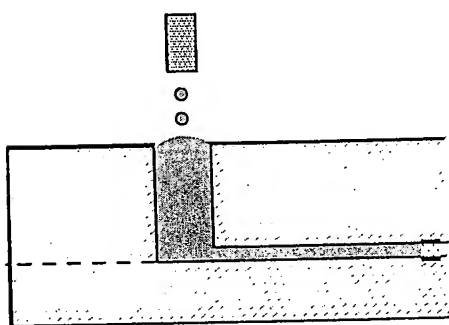


FIG. 10C

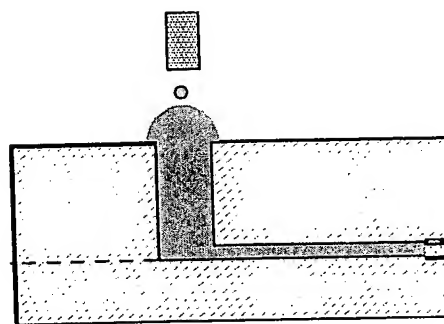


FIG. 10D

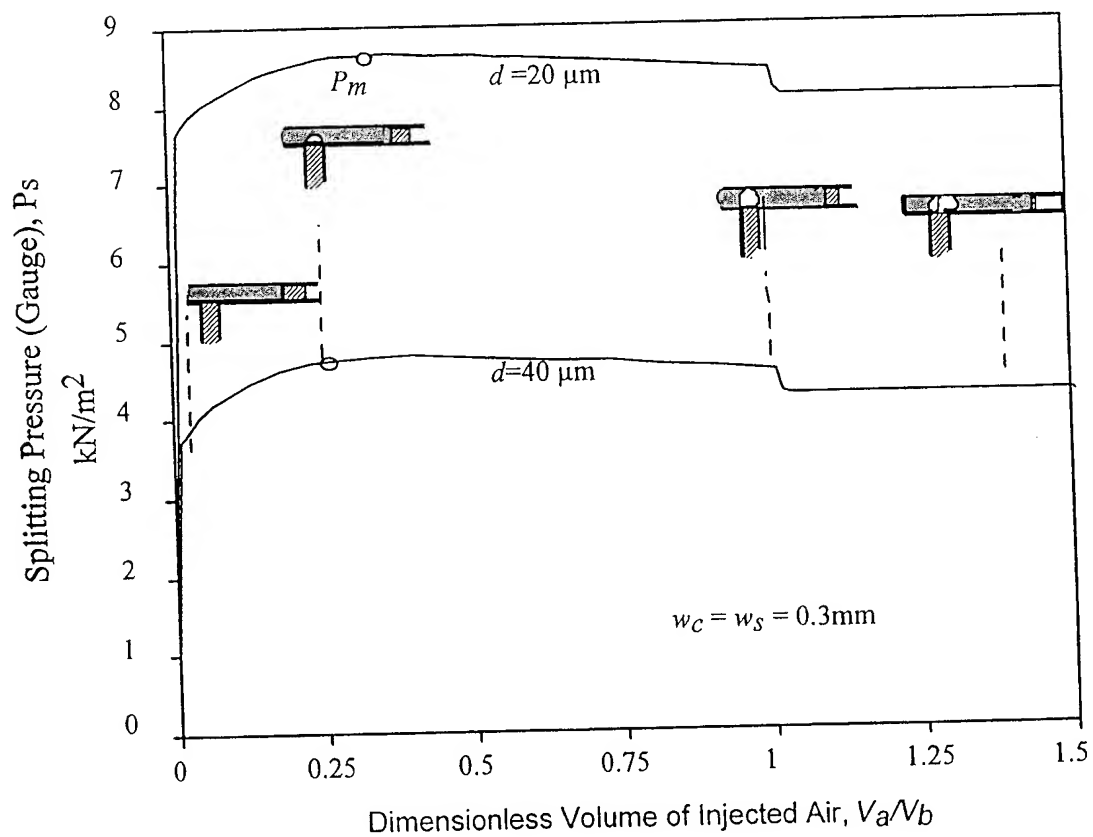
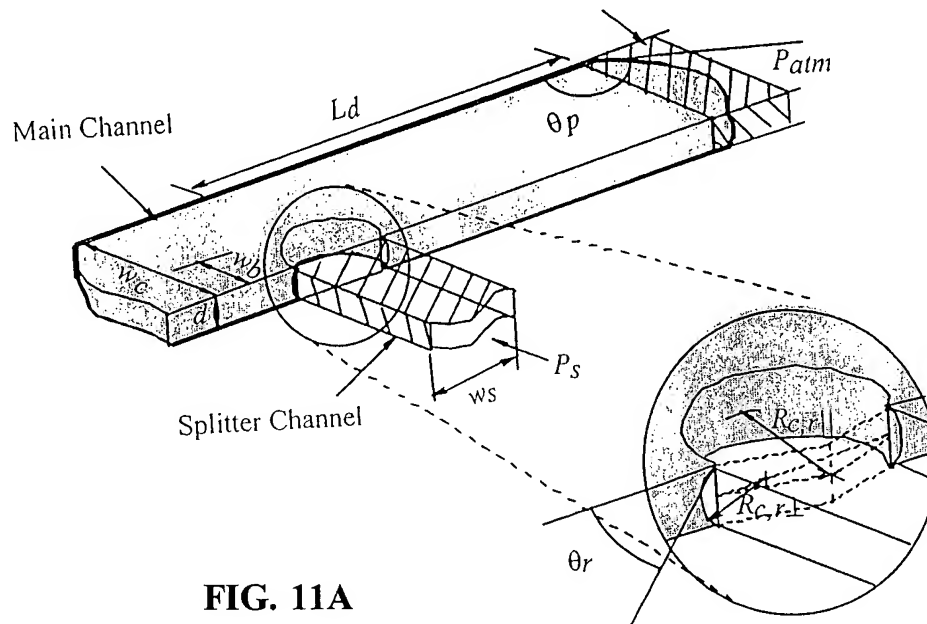


FIG. 11B

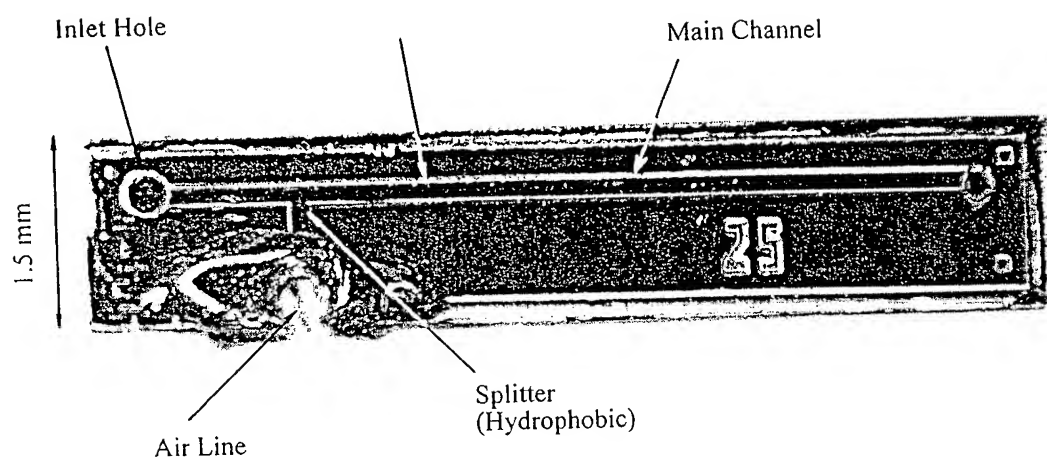


FIG. 12A

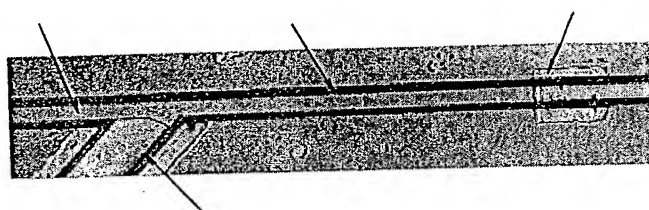


FIG. 12B

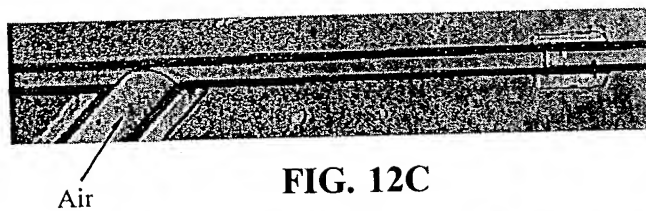


FIG. 12C

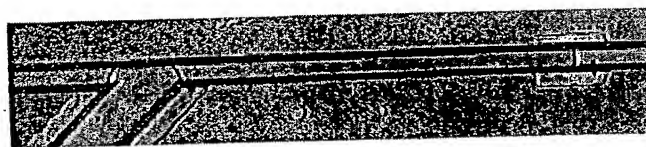


FIG. 12D

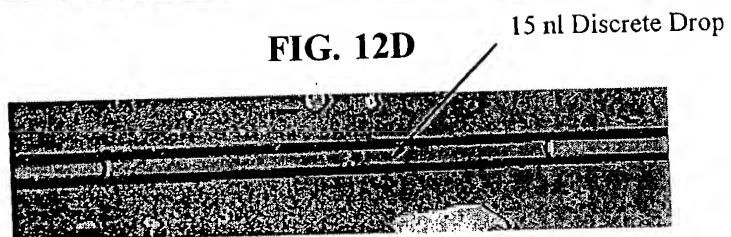


FIG. 12E

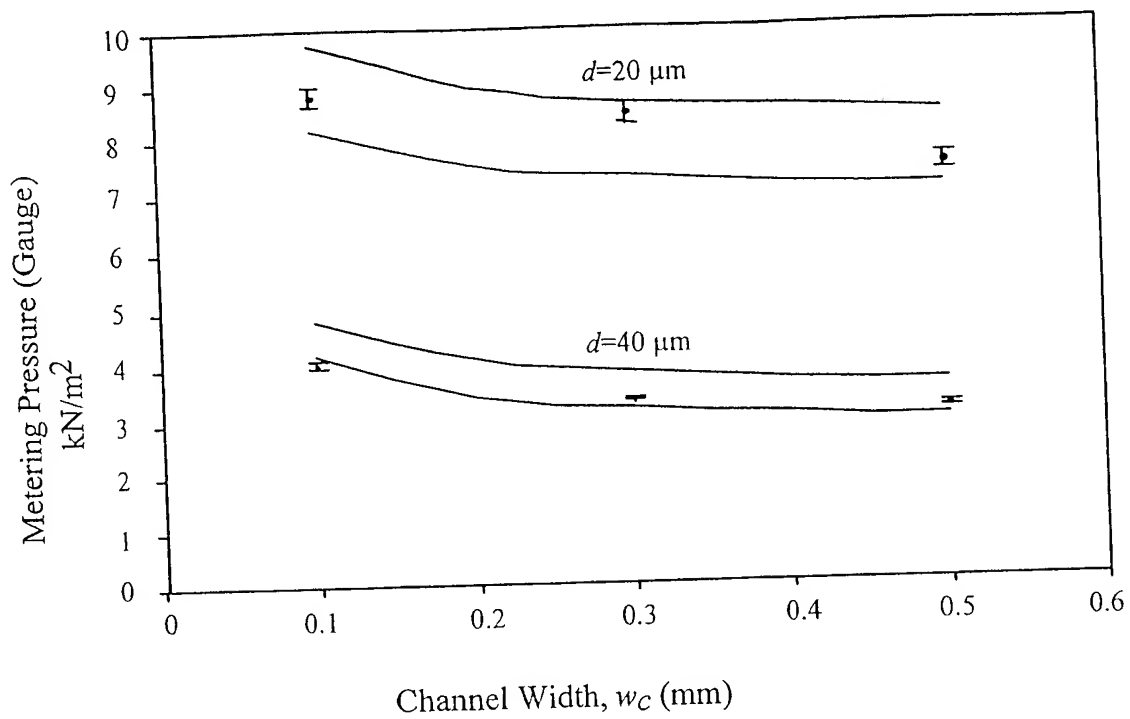


FIG. 13A

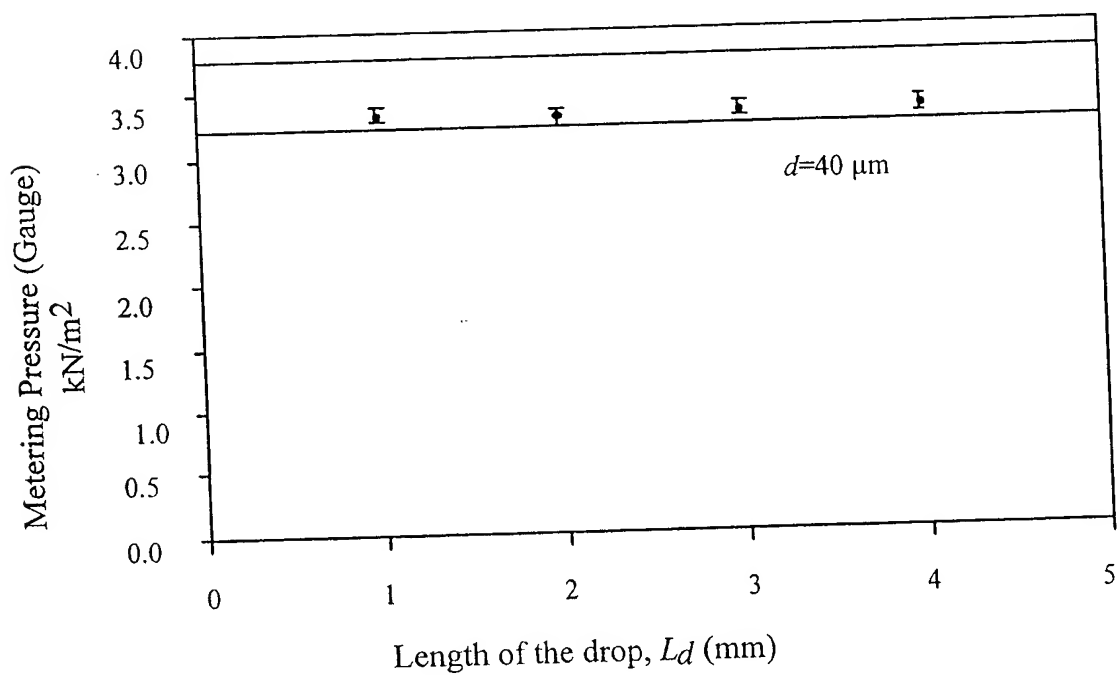


FIG. 13B

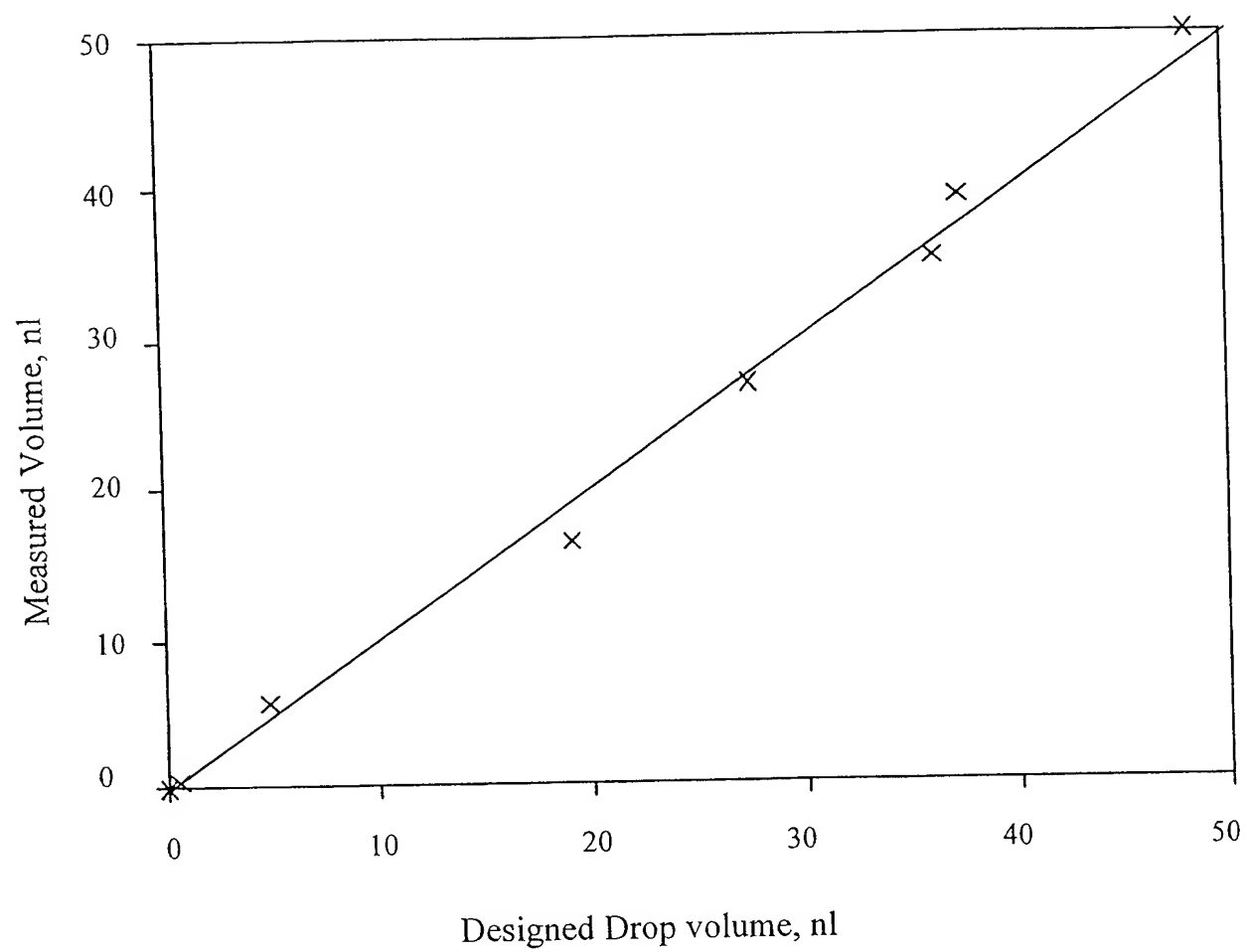


FIG. 14

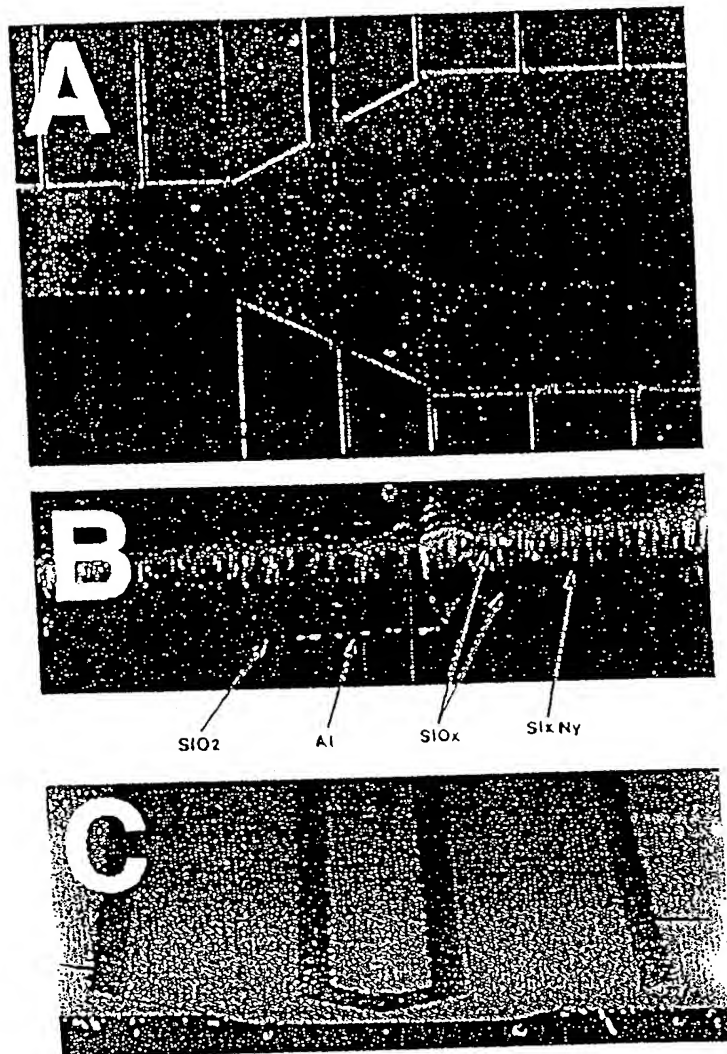


FIG. 15

FIG. 16A

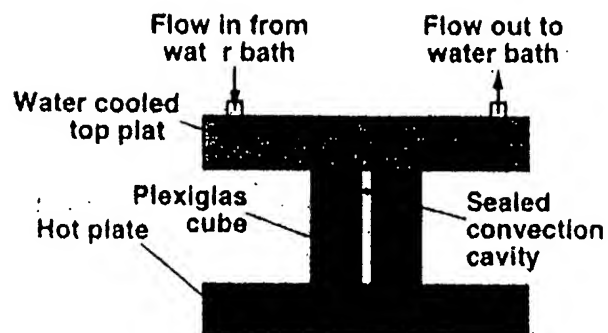


FIG. 16B

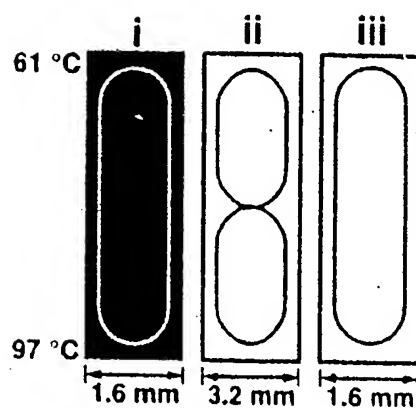


FIG. 16C

